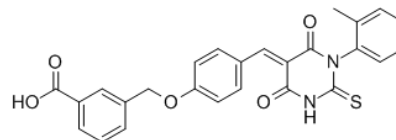


Product Name : LTV-1
Cat. No. : PC-45510
CAS No. : 347379-29-7
Molecular Formula : C₂₆H₂₀N₂O₅S
Molecular Weight : 472.5124
Target : Protein Phosphatase/PTP
Solubility : 10 mM in DMSO



Biological Activity

LTV-1 is a highly potent, cell-permeable and reversible **LYP (lymphoid tyrosine phosphatase, PTPN22)** inhibitor with IC₅₀ of 508 nM.

LTV-1 shows 3-fold selectivity over TCPTP (IC₅₀=1.52 μM) and PTP1B (IC₅₀=1.59 μM), 46-fold over SHP1 (IC₅₀=23.2 μM), and 59-fold over CD45 (IC₅₀=30.1 μM), > 200-fold over PTP-PEST (IC₅₀ >100 μM).

LTV-1 increases the phosphorylation levels of the direct physiological targets of LYP, augments calcium mobilization, activates the proximal IL-2 promoter, and enhances the expression of the early activation marker CD25 in T cells.

References

Vang T, et al. *Nat Chem Biol.* 2012 Mar 18;8(5):437-46.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com